| Inde | ex of ( | Claims |  |
|------|---------|--------|--|
|      |         |        |  |

| Application/Control No |
|------------------------|
|------------------------|

10/659,299

Examiner

Julie Anne Watko

Applicant(s)/Patent under Reexamination

HASHIMOTO ET AL.

Art Unit

2653

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Clá   | aim                   | Date     |  |              |                                     |                |          |          |          |                 |  |
|-------|-----------------------|----------|--|--------------|-------------------------------------|----------------|----------|----------|----------|-----------------|--|
| Final | Original              | 11/19/05 |  |              |                                     |                |          |          |          | =               |  |
|       | 1                     | +        | <u> </u>   |              |                                     |                |          |          |          | П               |  |
|       | 1<br>2<br>3<br>4<br>5 | +        |  |              |                                     |                |          |          | $\vdash$ |                 |  |
|       | 3                     | +        | Г  |              | $\vdash$                            |                |          |          |          | П               |  |
|       | 4                     | +        |  |              |                                     |                |          |          |          |                 |  |
|       |                       | +        |  |              |                                     |                |          |          |          |                 |  |
|       | <u>6</u><br>7         | +        |  |              |                                     |                |          |          |          |                 |  |
|       |                       | +        |  | 匚            | L                                   |                |          |          | L        |                 |  |
|       | 8                     | +        | _  | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                | <u> </u> | <u> </u> | L        | <u> </u>        |  |
|       | 9                     | +        | <u> </u>   | L_           | _                                   |                |          |          | L        | Щ               |  |
|       | 10                    | +        | <u> </u>   |              | <u> </u>                            | _              |          |          | _        | $\sqcup$        |  |
|       | 11                    | +        | <u> </u>   |              | L                                   | _              | _        | _        | <u> </u> | L.              |  |
|       | 11<br>12<br>13        | +        | ⊢  | <u> </u>     | ⊢                                   | ⊢              | -        |          | <u> </u> | Н               |  |
|       | 13                    | +        | $\vdash$   | $\vdash$     | ⊢                                   | <del> </del> — | -        | ├        | <b> </b> | $\vdash$        |  |
|       | 14<br>15              | +        | $\vdash$   | $\vdash$     | ⊢                                   | ├              | ├-       | -        | <u> </u> | $\vdash \vdash$ |  |
|       | 16                    | +        | ├  | _            | ├                                   | $\vdash$       | $\vdash$ | $\vdash$ | -        | Н               |  |
|       | 17                    | +        | ┢  | -            | $\vdash$                            |                | $\vdash$ | $\vdash$ | -        | Н               |  |
|       | 18                    | +        | ⊢  | ┢            | ┢                                   | _              | $\vdash$ | -        | ┢        | Н               |  |
|       | 17<br>18<br>19        | +        | -  | -            | ┢                                   |                | ┈        | -        | -        | H               |  |
|       | 20                    | +        | -  | -            | ┢╌                                  | <del> </del>   |          | -        |          | $\vdash$        |  |
|       | 20<br>21              | $\vdash$ |  |              |                                     |                | T        |          | Т        | Н               |  |
|       | 22                    |          |  |              |                                     |                |          |          |          | П               |  |
|       | 22<br>23<br>24        | Т        |  | $\vdash$     |                                     | $\vdash$       |          |          |          |                 |  |
|       | 24                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 25                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 26<br>27              |          |  |              |                                     |                |          |          |          |                 |  |
|       | 27                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 28<br>29<br>30        |          |  |              |                                     |                |          |          |          |                 |  |
|       | 29                    |          |  | L            |                                     | L_             |          |          |          |                 |  |
|       | 30                    |          | _  |              |                                     | L              | L        | _        | L        | Ш               |  |
|       | 31                    | <u> </u> |  |              |                                     | L              | _        | _        | _        | Ш               |  |
|       | 32<br>33<br>34        | <u> </u> |  | <u> </u>     | <u></u>                             |                |          | ļ        | L        | Щ               |  |
|       | 33                    | <u> </u> | ┡  | <u> </u>     | <u> </u>                            |                |          | <u> </u> | _        | $\vdash$        |  |
|       | 35                    | $\vdash$ | <u> </u>   | <u> </u>     | _                                   |                | _        | <u> </u> | $\vdash$ | Н               |  |
|       |                       | _        | <u> </u>   | _            | _                                   |                |          | ├        | _        | Н               |  |
| -     | 36<br>37              | _        | ├─   | -            |                                     | $\vdash$       | _        | ⊢        | -        | Н               |  |
|       | 38                    | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$                            | $\vdash$       |          | $\vdash$ | $\vdash$ | Н               |  |
|       | 39                    |          | H  |              | H                                   | $\vdash$       |          | $\vdash$ | H        | Н               |  |
|       | 40                    | $\vdash$ |  | $\vdash$     | $\vdash$                            | $\vdash$       |          | _        | -        | Н               |  |
|       | 41                    |          |  |              | $\vdash$                            | $\vdash$       |          | $\vdash$ | _        | Н               |  |
| _     | 42                    | _        | П  | _            |                                     |                |          |          | Т        | H               |  |
|       | 43                    |          |  | <u> </u>     | _                                   | Г              |          |          | Г        | Н               |  |
|       | 44                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 45                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 46                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 47                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 48                    |          |  |              |                                     |                |          |          |          |                 |  |
|       | 49                    | L        | $ldsymbol{ld}}}}}}}$ | $oxed{oxed}$ |                                     |                |          | $\Box$   |          |                 |  |
|       | 50                    |          | 1  |              | ı                                   |                |          |          |          | ı İ             |  |

| Cla      | im       |          |          |   | 1        | Date   | е        |  |              |          | 1 1 | Cla   | aim      |          |          |               | - [ | Date     |              |          |        |          |
|----------|----------|----------|----------|---|----------|--|----------|--|--------------|----------|-----|-------|----------|----------|----------|---------------|-----|----------|--------------|----------|--------|----------|
|          |          |          |          |   |          |  |          | П  |              |          | 1 1 |       |          |          |          |               |     |          |              |          |        |          |
| ਜ਼       | Original | 11/19/05 |          |   |          |  |          |  |              |          |     | ᅙ     | Original |          |          |               |     |          |              |          |        |          |
|          | Ġ.       | 13       |          |   |          | 1  | l        |  |              |          | i I | Final | rig      |          |          |               |     |          |              |          |        |          |
|          | 0        | +        |          |   |          |  |          |  |              |          |     |       | 0        |          |          |               |     |          |              |          |        |          |
| $\neg$   | 1        | +        | _        |   |          |  |          | $\vdash$   | $\vdash$     |          | 1   |       | 51       |          |          | _             |     | H        |              |          |        |          |
| $\neg$   | 2        | +        | _        | _ |          | $\vdash$   | H        | t  | -            | _        | 1   |       | 52       | Н        |          | _             |     | -        | Н            |          | _      |          |
| _        | 3        | +        |          | _ |          |  |          | ┢  | ┢            | _        | 1   |       | 53       | $\vdash$ |          |               | _   | $\vdash$ | $\vdash$     | $\vdash$ |        |          |
| $\neg$   | 4        | +        |          |   | $\vdash$ | -  | -        | <del>                                     </del> | ┢            | $\vdash$ | 1   |       | 54       | Н        |          |               |     | $\vdash$ | Н            |          | _      |          |
| $\neg$   | 5        | +        | _        | _ | 一        | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | 1   |       | 55       | Н        | $\neg$   |               |     |          | $\vdash$     |          |        |          |
| $\neg$   | 6        | +        | $\vdash$ |   | ┢═       | $\vdash$   | $\vdash$ |  | $\vdash$     |          | 1   |       | 56       |          |          |               |     | H        | $\vdash$     |          |        |          |
| $\neg$   | 7        | +        |          |   | $\vdash$ | H  | ┢        | ┢  |              | -        | 1   |       | 57       | H        |          | -             | _   | _        | _            | $\vdash$ |        | $\vdash$ |
| -        | 8        | +        | -        |   | $\vdash$ | $\vdash$   | -        | -  | <del> </del> | -        | 1   |       | 58       | Н        |          | _             |     |          | -            | _        |        | $\neg$   |
| $\dashv$ | 9        | +        |          |   |          | $\vdash$   | -        | -  | ┢            | ┢        | 1   | -     | 59       | Н        |          |               |     | H        | -            |          |        | H        |
| _        | 10       | +        |          |   |          |  | $\vdash$ |  | $\vdash$     | $\vdash$ | 1   |       | 60       | $\vdash$ |          | _             | _   |          |              | _        |        |          |
| ┪        | 11       | +        |          |   | $\vdash$ | _  | _        | _  | $\vdash$     |          | 1   |       | 61       | Н        |          | _             | _   |          |              | $\vdash$ |        |          |
| -        | 12       | +        | $\vdash$ |   | $\vdash$ | $\vdash$   | $\vdash$ |  | -            | -        | 1   |       | 62       | -        | _        |               | _   | ┢        | -            | -        |        |          |
| $\dashv$ | 13       | +        |          |   | ┝        | <del>                                     </del> | ┢        | -  | ┢            | $\vdash$ | 1   |       | 63       |          |          | -             |     | ┢        |              | -        |        |          |
| _        | 14       | +        |          | _ | H        | _  | -        | -  | -            |          | 1 1 |       | 64       | -        |          |               |     | ┢        |              |          |        | Н        |
| $\dashv$ | 15       | +        |          |   | $\vdash$ | $\vdash$   | ┝╌       | -  | -            | -        | ii  |       | 65       | -        | _        |               |     | ┝        | H            |          | _      |          |
| $\dashv$ | 16       | +        | -        |   | ┢        | $\vdash$   | $\vdash$ | $\vdash$   | _            | _        | 1 1 |       | 66       | -        | _        | _             | _   | $\vdash$ |              |          | $\neg$ |          |
| $\dashv$ | 17       | +        |          |   |          |  | H        | $\vdash$   |              | $\vdash$ | 1 1 |       | 67       |          | _        |               |     | $\vdash$ | $\vdash$     |          |        | Н        |
| $\dashv$ | 18       | +        |          |   | $\vdash$ | $\vdash$   | H        | H  | $\vdash$     | $\vdash$ | i i |       | 68       | $\vdash$ |          |               | _   | -        |              |          |        |          |
| -        | 19       | +        |          |   | $\vdash$ | -  | ┝┈       | -  | -            | $\vdash$ | 1   |       | 69       |          | _        |               | -   | -        | -            | $\vdash$ |        | $\vdash$ |
|          | 20       | +        | -        |   | $\vdash$ | ┢  | H        | -  | H            | $\vdash$ | l l |       | 70       | H        | $\neg$   |               | -   | -        | -            | -        |        |          |
| $\dashv$ | 21       |          |          |   |          | $\vdash$   | $\vdash$ |  | $\vdash$     | $\vdash$ | 1   |       | 71       |          |          |               | _   | $\vdash$ |              | _        |        | Н        |
| $\dashv$ | 22       |          |          |   |          | H  | $\vdash$ |  |              | $\vdash$ |     |       | 72       | Н        |          |               |     | $\vdash$ |              | $\vdash$ |        | $\neg$   |
| $\dashv$ | 23       | $\neg$   |          | _ | _        | 一  | -        | $\vdash$   | $\vdash$     | ├─       | 1   |       | 73       | $\vdash$ | $\vdash$ | $\neg$        |     |          | $\vdash$     | $\vdash$ |        |          |
| $\neg$   | 24       |          |          | _ |          |  |          |  |              |          | 1   |       | 74       | Н        |          |               |     |          |              |          |        | $\neg$   |
|          | 25       | _        |          |   |          |  | -        | _  | -            | $\vdash$ | 1   |       | 75       |          |          |               |     |          |              |          |        |          |
|          | 26       |          |          |   |          | 1  |          |  | _            | $\vdash$ | 1   |       | 76       |          |          |               |     |          |              |          |        | -        |
| 一        | 27       |          |          |   |          |  | H        |  |              | $\vdash$ | 1   |       | 77       |          | $\neg$   | $\overline{}$ |     |          |              |          |        |          |
| T        | 28       |          |          |   |          |  |          |  |              | _        | 1   |       | 78       | П        |          |               |     |          |              |          |        |          |
|          | 29       |          |          |   |          |  |          |  |              |          | 1   |       | 79       |          |          |               |     |          |              |          |        |          |
|          | 30       |          |          |   |          |  |          |  |              |          | 1   |       | 80       |          |          |               |     |          |              |          |        |          |
|          | 31       |          |          |   |          | Г  |          |  |              | $\vdash$ | 1   |       | 81       |          |          |               |     |          |              |          |        |          |
|          | 32       |          |          |   |          |  |          |  |              |          | 1   |       | 82       |          |          |               |     |          | Г            |          |        |          |
|          | 33       |          |          |   |          |  |          |  |              |          | 1   |       | 83       |          |          |               |     |          |              |          |        |          |
|          | 34       |          |          |   |          |  |          |  |              |          | 1   |       | 84       |          |          |               |     |          |              |          |        |          |
|          | 35       |          |          |   |          |  |          | Г  |              |          | 1 1 |       | 85       |          |          |               |     |          |              |          |        | $\Box$   |
|          | 36       |          |          |   |          |  |          |  |              |          | 1 1 |       | 86       |          |          |               |     |          |              |          |        |          |
|          | 37       |          |          |   |          |  |          |  |              |          | 1 1 |       | 87       |          |          |               |     |          |              |          |        |          |
|          | 38       |          |          |   |          |  |          |  |              |          |     |       | 88       |          |          |               |     |          |              |          |        |          |
|          | 39       |          |          |   |          |  |          |  |              |          |     |       | 89       |          |          |               |     |          |              |          |        |          |
|          | 40       |          |          |   |          |  |          |  |              |          |     |       | 90       |          |          |               |     |          |              |          |        |          |
|          | 41       |          |          |   |          |  |          |  |              |          |     |       | 91       |          |          |               |     |          |              |          |        |          |
|          | 42       |          |          |   |          |  |          |  |              |          |     |       | 92       |          |          |               |     |          |              |          |        |          |
|          | 43       |          |          |   |          |  |          |  |              |          | l l |       | 93       |          |          |               |     |          |              |          |        |          |
|          | 44       |          |          |   |          |  |          |  |              |          | ] [ |       | 94       |          |          |               |     |          |              |          |        |          |
|          | 45       |          |          |   |          |  | _        | L  | L            | <u> </u> | [ [ |       | 95       |          |          |               |     |          |              |          |        |          |
|          | 46       |          |          |   |          | <u> </u>   |          | <u></u>  | L            | L        |     | ]     | 96       |          |          |               |     |          |              |          |        |          |
| _ļ       | 47       |          |          |   |          | L.,  | L        | Щ  | <u> </u>     | _        |     |       | 97       |          |          |               |     |          |              |          |        |          |
| _        | 48       |          |          |   |          | <u> </u>   | Ь.       | L  | Щ            | L        |     |       | 98       | Ш        | Ш        | _             |     |          |              |          |        | Щ        |
|          | 49       |          |          |   | _        | <u> </u>   | <u> </u> | _  | Ш            |          |     |       | 99       | لسا      | Ш        |               |     | Щ        | $oxed{oxed}$ | Ш        |        |          |
|          | 50       |          |          |   |          |  | L        | L  |              | L_       | J ( |       | 100      | Ш        |          |               |     | L        | Ĺ            |          |        |          |

| Cla          | aim                             |                           |              |  | [                                   | Date                                | е                                   |  |                                     | $\neg$          |
|--------------|---------------------------------|---------------------------|--------------|--|-------------------------------------|-------------------------------------|-------------------------------------|--|-------------------------------------|-----------------|
|              |                                 |                           |              |  |                                     |                                     |                                     |  |                                     | П               |
| Final        | Original                        |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
| Fi           | rig                             |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              |                                 |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 101<br>102                      |                           |              |  |                                     |                                     |                                     |  | Г                                   |                 |
|              | 102                             |                           |              | Г  | Г                                   |                                     |                                     |  |                                     | П               |
|              | 103                             |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 104<br>105                      |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 105                             |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 106                             |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 107                             |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 108                             |                           |              |  |                                     |                                     |                                     | L  |                                     |                 |
|              | 109<br>110                      |                           |              |  |                                     |                                     |                                     |  |                                     |                 |
|              | 110                             |                           | 匚            | <u> </u>   |                                     | $oxed{oxed}$                        |                                     |  |                                     |                 |
|              | 111                             | _                         | oxdot        | <u> </u>   | <u> </u>                            |                                     | L                                   | <u> </u>   | L_                                  | Ш               |
| · .          | 112                             |                           | $oxed{oxed}$ | ldash  | <u> </u>                            | Щ                                   | <u> </u>                            | <u> </u>   | <u> </u>                            | Ш               |
|              | 112<br>113<br>114               |                           |              | <u> </u>   | <u> </u>                            | L                                   | <u> </u>                            |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш               |
|              | 114                             | <u> </u>                  | <u>L</u>     |  | <u> </u>                            | L                                   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |  | <u> </u>                            | Ш               |
|              | 115<br>116                      | <u> </u>                  | <u> </u>     | <u> </u>   | <u> </u>                            | Ш                                   | _                                   | _  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш               |
|              | 116                             | <u> </u>                  | L            | <u> </u>   | <u> </u>                            | Ш                                   | <u> </u>                            | <u> </u>   | L.                                  | Ш               |
|              | 117                             |                           | <u> </u>     | <u> </u>   | <u> </u>                            | Ш                                   | L                                   | <u> </u>   | L                                   | Ш               |
|              | 118<br>119<br>120<br>121<br>122 | _                         | <u> </u>     | <u> </u>   |                                     |                                     |                                     | <u> </u>   | L                                   |                 |
|              | 119                             |                           | _            | L.   | L                                   | L                                   |                                     |  |                                     | Ш               |
|              | 120                             |                           | _            | _  |                                     |                                     |                                     | _  |                                     |                 |
|              | 121                             | _                         | <u> </u>     | L  | L                                   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                                     | <u> </u>   | L                                   |                 |
|              | 122                             |                           | ļ            | L.   | <u> </u>                            |                                     | _                                   | <u> </u>   |                                     | Ш               |
|              | 123                             |                           | _            | <u> </u>   |                                     | L                                   | <u> </u>                            | <u> </u>   | lacksquare                          | Ш               |
|              | 123<br>124<br>125               |                           | L.           | L.   |                                     | _                                   | _                                   | <u> </u>   | $oxed{oxed}$                        | Ш               |
|              | 125                             |                           | <u> </u>     | <u> </u>   | <u> </u>                            |                                     |                                     | _  | <u> </u>                            | Ш               |
|              | 126                             | _                         | _            | _  | _                                   | $\vdash$                            |                                     | <u> </u>   |                                     | Ш               |
|              | 126<br>127<br>128<br>129<br>130 |                           | <u> </u>     | _  |                                     |                                     |                                     | _  |                                     |                 |
|              | 128                             | _                         | <u> </u>     | <u> </u>   | <u> </u>                            | L                                   |                                     | _  | L_                                  | Щ               |
|              | 129                             | $ldsymbol{ldsymbol{eta}}$ | <u> </u>     |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $\vdash$                            | L.                                  | <u> </u>   | L                                   | Щ               |
|              | 130                             | _                         | <u> </u>     |  | L.,                                 | _                                   |                                     | _  |                                     |                 |
|              | 131<br>132                      |                           | <u> </u>     | _  |                                     | _                                   | _                                   | _  |                                     |                 |
|              | 132                             | ļ.,                       | <u> </u>     | _  | L                                   | _                                   | <u> </u>                            | <u> </u>   | _                                   | Н               |
|              | 133                             |                           | <u> </u>     | ├  |                                     |                                     | L                                   | -  | $\vdash$                            | Н               |
|              | 134<br>135                      | $\vdash$                  | -            | ├─   |                                     | <u> —</u>                           | $\vdash$                            | $\vdash$   | <u> </u>                            | $\vdash \vdash$ |
| <b></b>      | 135                             | $\vdash$                  | _            | -  | -                                   | <u> </u>                            | $\vdash$                            | $\vdash$   | $\vdash$                            | Н               |
| <u> </u>     | 136                             |                           | ļ            |  |                                     | μ.                                  | $\vdash$                            | ⊢  | <del> </del>                        | H               |
|              | 137<br>138                      | -                         |              | $\vdash$   | $\vdash$                            | $\vdash$                            |                                     | $\vdash$   | $\vdash$                            | Н               |
|              | 139                             | -                         | $\vdash$     | $\vdash$   | $\vdash$                            | $\vdash$                            | -                                   | $\vdash$   | $\vdash$                            | Н               |
| <del> </del> | 140                             | $\vdash$                  | $\vdash$     | -  | -                                   | <del></del>                         | -                                   | $\vdash$   | $\vdash$                            | Н               |
|              | 141                             |                           |              | $\vdash$   | $\vdash$                            | $\vdash$                            | $\vdash$                            | ┝  | $\vdash$                            | H               |
|              | 142                             | -                         | $\vdash$     | $\vdash$   | $\vdash$                            | $\vdash$                            | $\vdash$                            | <del> </del>                                     |                                     | Н               |
|              | 143                             | $\vdash$                  | $\vdash$     | <del>                                     </del> | <del> </del>                        |                                     |                                     | <del> </del>                                     | -                                   | $\vdash \vdash$ |
|              | 144                             | $\vdash$                  | -            | $\vdash$   | H                                   | -                                   | Ι                                   | $\vdash$   | H                                   | $\dashv$        |
|              | 145                             | Н                         | $\vdash$     | $\vdash$   | Н                                   | _                                   | Н                                   | $\vdash$   | $\vdash$                            | Н               |
|              | 146                             | $\vdash$                  | $\vdash$     | H  | Н                                   |                                     | -                                   | <del>                                     </del> | $\vdash$                            | Н               |
|              | 147                             | <del> </del>              | ┝            | $\vdash$   |                                     | -                                   | $\vdash$                            | $\vdash$   | $\vdash$                            | Н               |
|              | 148                             | -                         | $\vdash$     | $\vdash$   | $\vdash$                            | $\vdash$                            | $\vdash$                            | ├-   | $\vdash$                            | Н               |
|              | 149                             | -                         | $\vdash$     | $\vdash$   | $\vdash$                            | -                                   | $\vdash$                            | <del> </del>                                     | $\vdash$                            | Н               |
|              | 150                             | $\vdash$                  | $\vdash$     | H  | <u> </u>                            |                                     | -                                   | $\vdash$   | $\vdash$                            | Н               |
| L            | 130                             |                           |              | L  | Ц_                                  |                                     | ш                                   | Щ.   | L                                   | لـــا           |